

Marked-Up Version of the Claims

1. (Amended) A method of reducing a quantization distortion created by quantization of a speech signal by a sample-by-sample quantizer, the speech signal including a plurality of frames, the method comprising:

(a) detecting that one frame of the plurality of frames ~~the signal~~ was previously quantized;
determining a quantization level for each of a plurality of samples of the one frame;
(b) estimating an expected quantization distortion for each of the plurality of samples
based on the quantization level of each of the plurality of samples ~~the signal~~; and
summing up the expected quantized distortion of each of the plurality of samples to
generate a summed quantization distortion; and
(c) removing the expected summed quantization distortion from the ~~signal~~ frame.

2. (Amended) The method of claim 1, wherein the determining includes using
quantization indices to determine the quantization levels ~~further comprising (d) determining the~~
~~quantization levels for the signal~~.

3. (Amended) The method of claim 2, wherein the quantization indices are obtained by
analyzing the frame to determine a type of the sample-by-sample quantizer and requantizing the
frame ~~further comprising (e) obtaining an expected quantization distortion from a distortion table~~
~~for each quantization level~~.

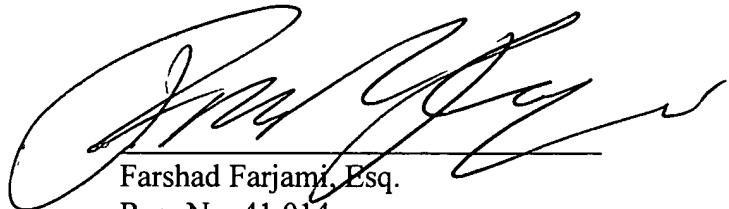
7. (Amended) The method of claim 1, wherein (c) further comprises the removing the
~~expected quantization distortion~~ is performed in the frequency domain.

8. (Amended) The method of claim 1, wherein (c) further comprises the removing the
~~expected quantization distortion~~ is performed in the time domain.

REMARKS

By this preliminary amendment, claim 4 has been cancelled, and claims 1-3 and 7-8 have been amended. It is respectfully submitted that no new matter has been added. Accordingly, consideration and examination of the pending claims 1-3 and 5-45 are respectfully requested. The Examiner is invited to contact the undersigned for any questions.

Respectfully Submitted;
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